

ALTECH PA66 A 1000/310 IM

(Last update: 08.05.2017)

Base Polymer	Polyamide 66
Special Features	heat ageing stabilisation, low temperature impact modified, high flow, easy release (demoulding)
Typical Applications	housings, various

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content max. moisture content <0,15 %
Processing Conditions	injection moulding melt temperature 270-290 °C injection moulding mould temperature 40-80 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural modulus	2000 / 850	MPa	ISO 178
Flexural strength	80 / 25	MPa	ISO 178
Tensile modulus	2200 / 950	MPa	ISO 527-1/-2
Tensile stress at yield	55 / 35	MPa	ISO 527-1/-2
Tensile strength at break	45 / 45	MPa	ISO 527-1/-2
Tensile elongation at yield	5 / 19	%	ISO 527-1/-2
Tensile elongation at break	30 / 200	%	ISO 527-1/-2
Charpy notched impact 1eA	60 / 100	kJ/m ²	ISO 179/1eA
Charpy notched impact 1eA -20 °C	20	kJ/m ²	ISO 179/1eA
Charpy notched impact 1eA -40 °C	15	kJ/m ²	ISO 179/1eA
Charpy impact strength 1eU	no break / -	kJ/m ²	ISO 179/1eU
Charpy impact strength 1eU -20 °C	no break	kJ/m ²	ISO 179/1eU
Charpy impact strength 1eU -40 °C	no break	kJ/m ²	ISO 179/1eU
Thermal Properties			
Vicat B50	211 / *	°C	ISO 306
HDT / A (1,8 MPa)	70 / *	°C	ISO 75-1/-2
DSC (Melt Point)	265 / *	°C	ISO 11357
Physical Properties			
Density	1100 / -	kg/m ³	ISO 1183

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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